

1. A device for changing the rate of heat transfer in a liquid contained in a container, said device comprising a tube for insertion in the container, said tube at least partially submerged in the liquid; a heat-exchanging fluid provided in said tube, said heat-exchanging fluid having a temperature different from the temperature of the liquid in the container, for effecting heat transfer between said heat-exchanging fluid and the liquid in the container; at least two tube openings provided in said tube for flowing the liquid from the container and through said tube openings when the container is inverted; and a plug provided in said tube between said tube openings and the heat-exchanging fluid to prevent commingling of the liquid in the container and the heat-exchanging fluid when the container is inverted.

2. The device of claim 1 comprising a cap provided on said tube, said cap adapted for attachment to the container and a cap opening provided in said cap, said cap opening communicating with said at least two tube openings in said tube for flowing the liquid from the container and through said at least two tube openings and through said cap opening in said cap.

3. The device of claim 1 wherein said tube terminates at said plug and comprising a tube connector extending from said plug and at least two tube connector openings provided in said tube connector for flowing the liquid from the container and through said tube connector openings when the container is inverted.

4. The device of claim 3 comprising a cap provided on said tube connector, said cap adapted for attachment to the container and a cap opening provided in said cap, said cap opening communicating with said at least two tube connector openings in said tube connector for flowing the liquid from said at least two tube connector openings through said cap opening in said cap.

5. The device of claim 4 wherein said plug is removably seated in said tube and said tube connector.

6. The device of claim 1 wherein said at least two tube openings in said tube comprise at least one tube wall opening provided in the wall of said tube and a tube top opening provided in the top of said tube.

7. The device of claim 6 comprising a cap provided on said tube, said cap adapted for attachment to the container and a cap opening provided in said cap, said cap opening communicating with said top opening and said at least one wall opening in said tube for flowing the liquid from said at least one tube wall opening and said tube top opening in said tube, through said cap opening in said cap.

8. The device of claim 1 wherein said tube terminates at said plug and comprising a tube connector having a tube connector wall and a tube connector top extending from said plug and at least one tube connector wall opening provided in said tube connector wall and a tube connector top opening provided in said tube connector top for flowing the liquid from the container and through said tube connector wall opening and said tube connector top opening in said tube connector when the container is inverted.

9. The device of claim 2 comprising a valve provided in said cap, said valve communicating with said cap opening for selectively opening and closing said cap opening.

10. The device of claim 8 comprising a cap provided on said tube, said cap adapted for attachment to the container and a cap opening provided in said cap, said cap opening communicating with said tube connector wall opening and said tube connector top opening in said tube connector for flowing said liquid from said tube connector wall opening and said tube connector top opening in said tube connector, through said cap opening in said cap, and a valve provided in said cap, said valve communicating with said cap opening for selectively opening and closing said cap opening.

11. A device for cooling or heating a liquid contained in a bottle or can, said device comprising a tube having an open top and for insertion in the bottle or can; a first container provided in said tube and a first heat-exchanging fluid provided in said first container; a second container provided in said tube beneath said first container and a second heat-exchanging fluid provided in said second container; connecting means fixed to said first container and slidably engaging said second container for connecting said first container to said second container; at least one tube opening provided in said tube for flowing the liquid from the bottle or can, through said tube opening and from said open top when the bottle or can is inverted; a seal provided in said second container between said first heat-exchanging fluid and said second heat-exchanging fluid to prevent commingling of said first heat-exchanging fluid and said second heat-exchanging fluid through said connecting means; and a button slidably disposed in said tube and contacting said second container for displacing said second container in said tube, contacting said seal with said connecting means, rupturing said seal and mixing said first heat-exchanging fluid with said second heat-exchanging fluid in said second container, responsive to application of pressure on said button.

12. The device of claim 11 comprising a cap provided on said tube, said cap adapted for attachment to the bottle or can and a cap opening provided in said cap, said cap opening communicating with said open top of said tube and said at least one tube opening in said tube for flowing the liquid from the bottle or can, through said at least one tube opening and said open top in said tube and through said cap opening in said cap.

13. The device of claim 12 wherein said tube is at least partially submerged in the liquid contained in the bottle or can.

14. The device of claim 13 wherein said connecting means comprises a hollow straw.

15. The device of claim 14 comprising a cap provided on said tube, said cap adapted for attachment to the bottle or can and a cap opening provided in said cap, said cap opening communicating with said open top of said tube and said at least one tube opening in said tube for flowing the liquid from the bottle, through said at least one tube opening and said open top in said tube and through said cap opening in said cap.

16. The device of claim 15 comprising a valve provided in said cap, said valve communicating with said cap opening for selectively opening and closing said cap opening.

17. The device of claim 11 wherein said tube is inserted in an opening provided in the bottom of the bottle or can.

18. A device for cooling or heating a liquid contained in a bottle, said device comprising a tube having a tube wall and an open top end terminating said tube wall, said tube sized for insertion in the bottle and at least partially submerged in the liquid; a first container provided in said tube, a first container neck downwardly-extending from said first container and a first heat-exchanging fluid provided in said first container; a second container provided in said tube beneath said first container, a second container neck upwardly-extending from said first container and slidably receiving said first container neck and a second heat-exchanging fluid provided in said second container; at least one tube opening provided in said tube wall for flowing the liquid from the bottle or can, through said tube opening and said open top of said tube when the bottle or can is inverted; a seal provided in said second container neck to prevent commingling of said first heat-exchanging fluid and said second heat-exchanging fluid; and a button slidably disposed in said tube and contacting said second container for displacing said second container upwardly in said tube, contacting said seal with said first container neck, rupturing said seal against said first container neck and mixing said first heat-exchanging fluid

with said second heat-exchanging fluid in said second container, responsive to application of pressure on said button.

19. The device of claim 17 comprising a cap provided on said tube, said cap adapted for attachment to the bottle and a cap opening provided in said cap, said cap opening communicating with said open top of said tube and said at least one tube opening in said tube for flowing the liquid from the bottle, through said at least one tube opening and said open top in said tube and through said cap opening in said cap.

20. The device of claim 18 comprising a valve provided in said cap, said valve communicating with said cap opening for selectively opening and closing said cap opening.

21. The device of claim 18 comprising a straw fixedly engaging said first container neck and slidably engaging said second container neck for contacting and rupturing said seal response to said application of pressure on said button and a straw seal receiving said first container neck and said second container neck for sealing said straw.

22. The device of claim 21 comprising a cap provided on said tube, said cap adapted for attachment to the bottle and a cap opening provided in said cap, said cap opening communicating with said open top of said tube and said at least one tube opening in said tube for flowing the liquid from the bottle, through said at least one tube opening and said open top in said tube and through said cap opening in said cap.

23. The device of claim 22 comprising a valve provided in said cap, said valve communicating with said cap opening for selectively opening and closing said cap opening.

24. A device for cooling or heating a liquid contained in a bottle or can having an internal bottle sleeve, said device comprising a first container provided in said bottle sleeve and a first heat-exchanging fluid provided in said first container; a second container provided in said

bottle sleeve beneath said first container and a second heat-exchanging fluid provided in said second container; connecting means fixed to said first container and slidably engaging said second container; a seal provided in said second container between said first heat-exchanging fluid and said second heat-exchanging fluid to prevent commingling of said first heat-exchanging fluid and said second heat-exchanging fluid through said connecting means; and a button slidably disposed in said bottle sleeve and contacting said second container for displacing said second container in said sleeve contacting said seal with said connecting means, rupturing said seal and mixing said first heat-exchanging fluid with said second heat-exchanging fluid in said second container, responsive to application of pressure on said button.